KARNATAKA TEST HOUSE PVT. LTD.

No.778/44, 8th Cross, Triveni Road, Gokul 1st Stage, 2nd Phase, Bangalore – 560 054.
Tele Fax : 23378383 / 23375326.
E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/2186-3725b/2013-2014 **Date: 27.01.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP Bangalore - 97.

Name of the Project*: - Construction of Ward Office Building in Ward No.10

Name of the Contractor* : **M/S Balaji Constructions.**

Sample Received on: 25.01.2014

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Coloumn	M_{20}	23.11.2013	25.01.2014	Above 28 days	22500	8.125	663	29.47
2.		"	"	"	"	"	8.165	677	30.09
3.		"	"	"	"	"	8.215	690	30.67

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

27/1/14

for ***KARNATAKA TEST HOUSE PVT. LTD.***

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/CT/2186-3725c/2013-2014 **Date: 27.01.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP Bangalore - 97.

Name of the Project*: - Construction of Ward Office Building in Ward No.10

Name of the Contractor* : **M/S Balaji Constructions.**

Sample Received on: 25.01.2014

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Coloumn	M_{20}	04.12.2013	25.01.2014	Above 28 days	22500	7.710	595	26.44
2.		"	"	"	"	"	7.650	602	26.75
3.		"	"	"	"	"	7.730	551	24.48

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
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Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

for KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/CT/2186-3725a/2013-2014 **Date: 27.01.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP Bangalore - 97.

Name of the Project*: - Construction of Ward Office Building in Ward No.10

Name of the Contractor* : **M/S Balaji Constructions.**

Sample Received on: 25.01.2014

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Ground Floor Slab	M_{20}	30.11.2013	25.01.2014	Above 28 days	22500	7.910	712	31.64
2.		"	"	"	"	"	8.270	768	34.13
3.		"	"	"	"	"	8.220	742	32.97

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

for ***KARNATAKA TEST HOUSE PVT. LTD.***

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

(SREENIVASA.C.)
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Report No. : KTH/CT/2186-3725/2013-2014 **Date: 27.01.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP Bangalore - 97.

Name of the Project*: - Construction of Ward Office Building in Ward No.10

Name of the Contractor* : **M/S Balaji Constructions.**

Sample Received on: 25.01.2014

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Coloumn	M_{20}	23.11.2013	25.01.2014	Above 28 days	22500	8.110	682	30.31
2.		"	"	"	"	"	8.170	715	31.77
3.		"	"	"	"	"	7.900	690	30.66

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

for KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C.)
TECHNICAL MANAGER

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MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab
Certificate No.T-0901

Report No. : KTH/C.AGG/2186-3721/2013-201 **Date: 29.01.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Ward office Building in Ward No.10.

Name of Contractor* : M/S . Balaji Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 25.01.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

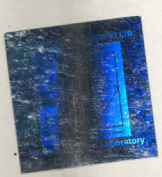
Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample Doesn't confirms to Single Size of IS: Stipulation for 40mm size Aggregate.
2	40	27.3	85 to 100	95 to 100	
3	20	5.08	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	8.10	Not specified
2	Elongation Index (%)	40	22.65	Not specified
3	Impact Value (%)	40	29.40	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

29/1/14.



(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/F.AGG/2186-3722/2013-2014 **Date: 29.01.2014**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Ward office Building in Ward No.10.

Name of Contractor* : M/S . Balaji Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 25.01.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970 Suitable for Construction.
2	4.75	93.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	83.9	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	52.9	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	35.3	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	10.9	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	2.8	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	2.56	Shall not be more than 15.0 %

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/ST/2186-3726/2013-2014 **Date: 28.01.2014**

TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 66.

Name of the Project* : Construction of Ward office Building in Ward No.10

Name of Contractor* : M/S . Balaji Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 25.01.2014.

Nature of Sample* : Reinforcement steel – 8mm, 10mm, 12mm & 16mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST:

Dia (mm)	8	10	12	16	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.382	0.605	0.781■	1.570	8mm – 0.367 Min 10mm – 0.574 Min 12mm – 0.844 Min 16mm – 1.501 Min
Yield Stress (N/mm^2)	398.09◆	484.08◆	619.25	447.85◆	500 Min
Tensile Strength (N/mm^2)	656.85	535.03●	690.02	547.37	8% More than actual 0.2% proof stress but not less than 545 N/mm^2
% Elongation (on G.L $5.65\sqrt{A}$)	25.0	22.0	16.6	17.5	12.5 Min.

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Report No. : KTH/ST/2186-3726/2013-2014

BEND TEST:

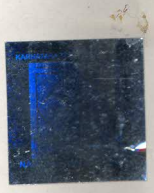
Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	4 dia	No cracks observed. Passes the test.
2.	10	4 dia	No cracks observed. Passes the test.
3.	12	4 dia	No cracks observed. Passes the test.
4.	16	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	No cracks observed. Passes the test.
2.	10	5 dia	No cracks observed. Passes the test.
3.	12	7 dia	No cracks observed. Passes the test.
4.	16	7 dia	No cracks observed. Passes the test.

* As furnished by the Customer

■ Under Weight ♦ Fails in Yield stress ● Fails in Tensile Strength



For **KARNATAKA TEST HOUSE PVT. LTD.**

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TECHNICAL MANAGER

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NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/ CEMENT/ 2186-3723/2013-2014 **Date: 01.02.2014**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Ward office Building in Ward No.10

Name of Contractor* : M/S . Balaji Constructions, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 25.01.2014.

Period of Test : 25.01.2014 to 01.02.2014.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30.10 %	Not specified	-
2	Initial setting time	192 minutes	Shall not be less than 30 minutes	P
3	Final setting time	287 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.30 MPa 39.60 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	315.25m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	0.89 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

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